	Application No.	Applicant(s)
Notice of Allowability	09/889,373	KAINE ET AL.
	Examiner	Art Unit
	Fred Tzeng	2651
The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet w (OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	rith the correspondence address in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to 8/25/2004.		
2. The allowed claim(s) is/are <u>4-9 which are now renumbered</u>	<u>d as 1-6</u> .	
3. The drawings filed on 16 July 2001 are accepted by the Ex	xaminer.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicati	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fil IENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet	son's Patent Drawing Revie . s Amendment / Comment of .84(c)) should be written on the header according to 37 C	or in the Office action of the drawings in the front (not the back) of FR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	Sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 98), 7. ☐ Examiner's	Informal Patent Application (PTO-152) Summary (PTO-413), I/Mail Date S Amendment/Comment S Statement of Reasons for Allowance

Reason for Allowance

1. The following is an examiner's statement of reasons for allowance:

Claims 4-9 which are now renumbered as 1-6 are allowable over the prior art of record because none of the prior art of record teaches or fairly suggests a magnetic recording apparatus specifically comprising a cancel mean for canceling crosstalk from at least a signal among the three signals outputted from a photodetection means, to the other signal, and reducing an influence of crosstalk between signals on tracking error detection to enable high-precision tracking error signal to be detected. The cancel means comprising of first and second voltage-dividing means which perform voltage division on a output signal from a first photosensitive part of the photodetection means; a first differential arithmetic means for performing differential calculation on the signal output respectively from a second photosensitive part of the three photosensitive parts of the photodetection means and an output signal from the first voltage-dividing means: and a second differential arithmetic means for performing differential calculation on signal output respectively from a third photosensitive part of the three photosensitive parts of the photodetection means and an output signal from the second voltagedividing means. It is noted that the closest prior art, Kojima (USPN 6,580,580) shows a magnetic memory drive comprises a light source, a diffraction element, a lightconverging optical system, a photodetection means, a signal processing means and a driving means. However, Kojima fails to disclose a cancel means specifically comprising of first and second voltage-dividing means, a first and a second differential arithmetic means for canceling cross talk from at least a signal among the three signals

Art Unit: 2651

outputted from a photodetection means, to the other signal, and reducing an influence of crosstalk between signals on tracking error detection to enable high-precision tracking error signal to be detected.

- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 3. Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-9051, (formal communications, please mark "EXPEDITED PROCEDURE")

Or:

(703) 308-6606 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington. V.A., Sixth Floor (receptionist).

4. Any inquiry concerning this communication from the examiner should be directed to Fred Tzeng whose telephone number is 703-305-4841. The examiner can normally be reached on weekdays from 9:30 am to 6:00 pm.

Art Unit: 2651

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 703-305-4040. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-5710 for After Final communications.

5. Informal regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SINH TRAN PRIMARY EXAMINER

Fred F. Tzeng

December 07, 2004